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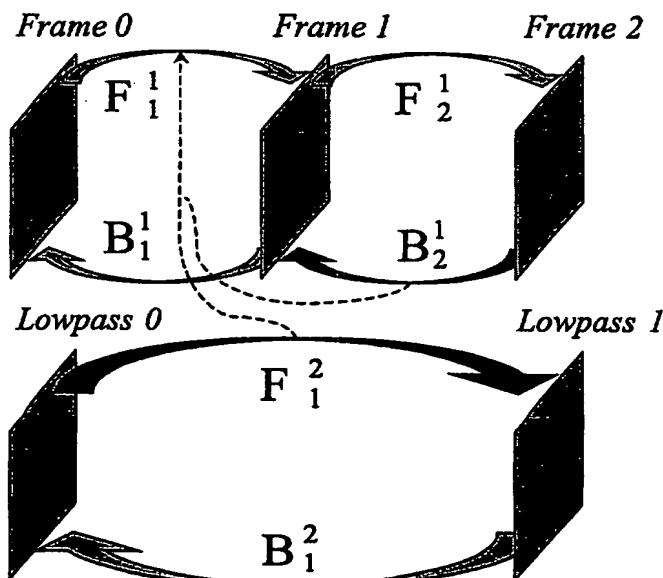
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(54) Title: METHOD OF SIGNALLING MOTION INFORMATION FOR EFFICIENT SCALABLE VIDEO COMPRESSION



(57) Abstract: A method for incrementally coding and signalling motion information for a video compression system involving a motion adaptive transform and embedded coding of transformed video samples comprises the steps of: (a) producing an embedded bit-stream, representing each motion field in coarse to fine fashion; and (b) interleaving incremental contributions from said embedded motion fields with incremental contributions from said transformed video samples. A further embodiment of a method for estimating and signalling motion information for a motion adaptive transform based on temporal lifting steps comprises the steps of: (a) estimating and signalling motion parameters describing a first mapping from a source frame onto a target frame within one of the lifting steps; and (b) inferring a second mapping between either said source frame or said target frame, and another frame, based on the estimated and signalled motion parameters associated with said first mapping.

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